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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/623,914 07/21/2003		Thomas M. Hering	27708/04065	5367			
24024 CALFEE HAL	7590 06/11/2007 TER & GRISWOLD, LLP		EXAM	INER			
800 SUPERIO	·		DUNSTON, JENNIFER ANN				
SUITE 1400 CLEVELAND	, OH 44114		ART UNIT	PAPER NUMBER			
			1636				
			MAIL DATE	DELIVERY MODE			
			06/11/2007	PAPER			

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)
	Office Action Summary	10/623,914	HERING ET AL.
	Omee Action Summary	Examiner	Art Unit
	The MAN INC DATE of the	Jennifer Dunston	1636
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet	with the correspondence address
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may will apply and will expire SIX (6) Min, cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
Status			
1)⊠	Responsive to communication(s) filed on 20 M	<u>arch 2007</u> .	<u>.</u>
2a)⊠	This action is FINAL . 2b) ☐ This	action is non-final.	
3)	Since this application is in condition for allowar	nce except for formal ma	atters, prosecution as to the merits is
	closed in accordance with the practice under E	x parte Quayle, 1935 C	.D. 11, 453 O.G. 213.
Disposit	ion of Claims		
5)⊠ 6)⊠ 7)⊠ 8)□	Claim(s) <u>8-14 and 35-37</u> is/are pending in the at 4a) Of the above claim(s) is/are withdraw Claim(s) <u>8-13 and 36</u> is/are allowed. Claim(s) <u>14 and 35</u> is/are rejected. Claim(s) <u>37</u> is/are objected to. Claim(s) are subject to restriction and/or in Page 25.	vn from consideration.	
	ion Papers		
	The specification is objected to by the Examine		biochod to but the Francisco
10)[The drawing(s) filed on <u>20 March 2007</u> is/are: a	· ·	•
	Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction	* * * * * * * * * * * * * * * * * * * *	···
11)	The oath or declaration is objected to by the Ex		
Driority .	under 35 U.S.C. § 119		
12) [a) [Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in ity documents have been (PCT Rule 17.2(a)).	Application No en received in this National Stage
Attachmen		ο 🗆	· · · · · · · · · · · · · · · · · · ·
2) Notice (3) Information	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) tr No(s)/Mail Date	Paper No	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application <u>xhibits I and II</u> .

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DETAILED ACTION

This action is in response to the amendment, filed 3/20/2007, in which claims 1-7 and 15-34 were canceled, claims 8-14 were amended, and claims 35-37 were newly added. Currently, claims 8-14 and 35-37 are pending.

Applicant's arguments have been thoroughly reviewed, but are not persuasive for the reasons that follow. Any rejections and objections not reiterated in this action have been withdrawn. This action is FINAL.

Election/Restrictions

Applicant elected Group without traverse in the reply filed on 8/11/2006. Claims 8-14 and 35-37 are currently under consideration.

Specification

The disclosure is objected to because of the following informalities:

The specification indicates that the sequence presented in Figure 6 is disclosed in SEQ ID NO: 4 and is encoded by SEQ ID NO: 3 (e.g. paragraphs [0031 and [0056]). However, the sequence of SEQ ID NO: 3 does not encode the sequence of SEQ ID NO: 4 (see the attached alignment in Exhibit I).

Appropriate correction is required. This is a new objection, necessitated by the amendment to the sequence listing in the reply filed 3/20/2007.

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Claim Objections

Claim 14 is objected to because of the following informalities: the word "and" should be placed before item (b) in the Markush-type group to conform to the accepted language. One acceptable form of alternative expression, which is commonly referred to as a Markush group, recites members as being "selected from the group consisting of A, B and C." See *Ex parte Markush*, 1925 C.D. 126 (Comm'r Pat. 1925). Appropriate correction is required. This is a new objection, necessitated by the amendment of claim 14 in the reply filed 3/20/2007.

Claim 37 is objected to because of the following informalities: the verb does not agree with the subject. It would be remedial to amend the claim to replace the word "are" with the word "is" to improve the grammar of the claim. Appropriate correction is required. This is a new objection, necessitated by the addition of new claim 37 in the reply filed 3/20/2007.

Response to Arguments - 35 USC § 112

The rejection of claims 8-13 under 35 U.S.C. 112, second paragraph, has been withdrawn in view of Applicant's amendment to the sequence listing in the reply filed 3/20/2007.

The rejection of claims 8-12 and 14 under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement, has been withdrawn in view of Applicant's amendment to the claims in the reply filed 3/20/2007.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 14 and 35 are rejected under 35 U.S.C. 102(a) as being anticipated by GenBank Accession No. AC011508.1 (GI: 6015244, October 7, 1999; see the entire reference). This rejection was made over claim 14 in the Office action mailed 10/18/2006. The rejection has been rewritten to address amended claim 14 and has been extended to new claim 35.

Regarding claim 14, GenBank Accession No. AC011508 teaches a polynucleotide that comprises a fragment of at least 210 nucleotides in length and is identical to a sequence within nucleotides 25-1581 of SEQ ID NO: 3 (see the alignment in Exhibit II). GenBank Accession No. AC011508.1 teaches a sequence that is at least 210 nucleotides in length and is identical to a nucleotide sequence extending from nucleotide 196 through nucleotide 521 of GenBank Accession No. AC011508.1 (see the alignment in Exhibit II).

Regarding claim 35, GenBank Accession No. AC011508 teaches a polynucleotide that comprises a fragment of at least 210 nucleotides in length and is identical to a sequence within nucleotides 163-423 of SEQ ID NO: 3 (see the alignment in Exhibit II). GenBank Accession No. AC011508.1 teaches a sequence that is at least 210 nucleotides in length and is identical to a nucleotide sequence extending from nucleotide 196 through nucleotide 521 of GenBank Accession No. AC011508.1 (see the alignment in Exhibit II).

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Response to Arguments - 35 USC § 102

The rejection of claims 8-10, 12 and 14 under 35 U.S.C. 102(e) as being anticipated by Brennan et al (US 5,985,551) has been withdrawn in view of Applicant's amendment to the claims in the reply filed 3/20/2007.

The rejection of claims 8-12 under 35 U.S.C. 102(a) as being anticipated by GenBank Accession No. AC011508.1 (GI: 6015244, October 7, 1999) has been withdrawn in view of Applicant's amendment to the claims in the reply filed 3/20/2007. The nucleotide sequence of GenBank Accession No. AC011508.1 does not encode a protein that is at least 90% identical to the full-length sequence of SEQ ID NO: 4 and does not contain the full-length coding sequence set forth in SEQ ID NO: 3.

With respect to the rejection of claim 14 35 U.S.C. 102(a) as being anticipated by GenBank Accession No. AC011508.1 (GI: 6015244, October 7, 1999), Applicant's arguments filed 3/20/2006 have been fully considered but they are not persuasive.

The response asserts that the amendment of claim 14 to recite that the polynucleotide is at least 210 nucleotides in length and has a sequence that is identical to or complementary to a sequence extending from nucleotide 25 through nucleotide 1581 of SEQ ID NO: 3 overcomes the rejection. This is not found persuasive, because GenBank Accession No. AC011508.1 teaches a sequence that is at least 210 nucleotides in length and is identical to a nucleotide sequence extending from nucleotide 196 through nucleotide 521 of GenBank Accession No. AC011508.1 (see the alignment in Exhibit II). This sequence is more than 210 nucleotides in length.

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For these reasons, and the reasons made of record in the previous office actions, the rejection is <u>maintained</u>.

Conclusion

Claims 8-13 and 36 are allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer Dunston whose telephone number is 571-272-2916. The examiner can normally be reached on M-F, 9 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on 571-272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jennifer Dunston Examiner Art Unit 1636

JD/

CELINE QIAN, PH.D. PRIMARY EXAMINER



PubMed

Entrez

BLAST

OMIM

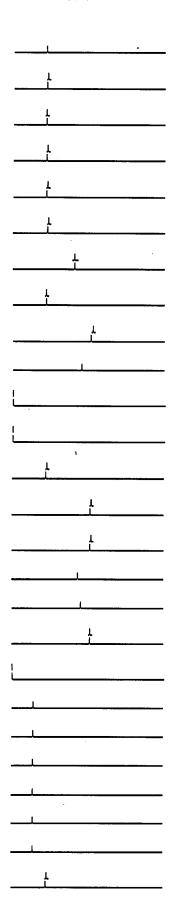
Taxonomy

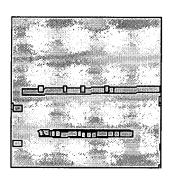
Structure

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Match: 1 Mismatch: -2 gap open: 5 gap extension: 2 x_dropoff: 0 expect: 10.0000 wordsize: 11 Filter □ View option Standard Masking character option X for protein, n for nucleotide Masking color option Black □ Show CDS translation Align							
Sequence 1 : lcl 3 Length = 2143 (1 214	SEQ ID NO):3		•			
Sequence 2 : $gi 601524$ Length = 104342 (1 1	4 gb AC011508.1 AC0115 104342)	08					
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NOTE:Bitscore and expect value are calculated based on the size of the nr database.

NOTE:If protein translation is reversed, please repeat the search with reverse strand of the query sequence.



Score = 3698 bits (1923), Expect = 0.0
Identities = 1948/1958 (99%), Gaps = 1/1958 (0%)
Strand=Plus/Plus

Query	160	GATTTGGAGTCAAAAACGTATGAGACCAAAAAATATTTTTCAGAAAATGATATTTTTGAA	219
Sbjct	52355		52414
Query	220	ATAAATTTTTCCCAGTGGGAGATGAAGGACAAAAGTAAAACCCTTGGCCTTGAGGCATCC	279
Sbjct	52415		52474
Query	280	ATCTTCAGAAATAATTGGAAGTGCAAAAGCATATTCGAGGGACTAAAAGGACATCAAGAG	339
Sbjct	52475		52534
Query	340	GGATACTTCAGTCAAATGATAATCAGCTATGAAAAAATACCTTCTTACAGAAAAAGTAAA	399
Sbjct	52535		52594
Query	400	TCTCTTACTCCACATCAAAGAATTCATAATACAGAGAAATCCTATGTTTGTAAGGAATGT	459
Sbjct	52595	TCTCTTACTCCACATCAAAGAATTCATAATACAGAGAAATCCTATGTTTGTAAGGAATGT	52654
Query	460	GGGAAGGCTTGCAGTCATGGCTCAAAACTTGTTCAACATGAGAGAACTCATACAGCTGAA	519
Sbjct	52655	GGGAAGGCTTGCAGTCATGGCTCAAAACTTGTTCAACATGAGAGAACTCATACAGCTGAA	52714
Query	520	AAGCACTTTGAATGTAAAGAATGTGGGAAGAATTATTTAAGTGCCTATCAACTCAATGTG	579
Sbjct	52715	AAACACTTTGAATGTAAAGAATGTGGGAAGAATTATTTAAGTGCCTATCAACTCAATGTG	52774
Query	580	CATCAGAGATTTCATACTGGTGAGAAACCCTATGAGTGTAAGGAATGTGGGAAGACCTTT	639
Sbjct	52775	CATCAGAGATTTCATACTGGTGAGAAACCCTATGAGTGTAAGGAATGTGGGAAGACCTTT	52834
Query	640	AGCTGGGGATCAAGCCTTGTTAAACATGAGAGAATTCACACTGGTGAGAAACCCTATGAA	699
Sbjct	52835	AGCTGGGGATCAAGCCTTGTTAAACATGAGAGAATTCACACTGGTGAGAAACCCTATGAA	52894
Query	700	TGTAAAGAATGTGGGAAGGCCTTTAGTCGTGGCTATCACCTTACCCAACATCAGAAAATT	759
Sbjct	52895	TGTAAAGAATGTGGGAAGGCCTTTAGTCGTGGCTATCACCTTACCCAACATCAGAAAATT	52954
Query	760	CATATTGGTGTGAAATCTTATAAATGTAAGGAATGTGGGAAGGCCTTTTTTTGGGGCTCA	819
Sbjct	52955	CATACTGGTGTGAAATCTTATAAATGTAAGGAATGTGGGAAGGCCTTTTTTTT	53014
Query	820	AGCCTTGCTAAACATGAGATAATTCATACAGGTGAGAAACCTTATAAATGTAAAGAATGT	879
Sbjct	53015	AGCCTTGCTAAACATGAGATAATTCATACAGGTGAGAAACCTTATAAATGTAAAGAATGT	53074

Query	880	GGGAAGGCCTTCAGTCGTGGCTATCAACTTACTCAGCATCAGAAAATCCATACTGGTAAG	939
Sbjct	53075	GGGAAGGCCTTCAGTCGTGGCTATCAGCTTACTCAGCATCAGAAAATCCATACTGGTAAG	53134
Query	940	AAACCTTATGAATGTAAAATATGTGGAAAGGCTTTTTGTTGGGGCTATCAACTTACTCGA	999
Sbjct	53135	AAACCTTATGAATGTAAAATATGTGGAAAGGCTTTTTGTTGGGGGCTATCAACTTACTCGA	53194
Query	1000	CATCAGATATTTCATACTGGTGAGAAACCCTATGAATGCAAGGAATGTGGGAAGGCTTTT	1059
Sbjct	53195		53254
Query	1060	AATTGCGGATCAAGTCTTATTCAACATGAAAGAATTCATACTGGTGAGAAACCTTATGAA	1119
Sbjct	53255		53314
Query	1120	TGTAAAGAATGTGGAAAGGCCTTTAGTCGTGGCTATCACCTTTCTCAACATCAGAAAATC	1179
Sbjct	53315	TGTAAAGAATGTGGAAAGGCCTTTAGTCGTGGCTATCACCTTTCTCAACATCAGAAAATC	53374
Query	1180	CATACTGGTGAGAAACCTTTTGAATGTAAGGAATGTGGGAAGGCCTTTAGTTGGGGTTCA	1239
Sbjct	53375	CATACTGGTGAGAAACCTTTTGAATGTAAGGAATGTGGGAAGGCCTTTAGTTGGGGTTCA	53434
Query	1240	AGCCTTGTTAAACATGAGAGAGTTCATACTGGTGAGAAATCCCATGAATGTAAAGAATGC	1299
Sbjct	53435	AGCCTTGTTAAACATGAGAGAGTTCATACTGGTGAGAAATCCCATGAATGTAAAGAATGC	53494
Query	1300	GGAAAGACCTTTTGTAGTGGGTATCAACTTACTCGACATCAGGTATTTCACACTGGTGAG	1359
Sbjct	53495		53554
Query	1360	AAACCCTATGAATGTAAGGAATGTGGGAAGGCTTTTAATTGTGGATCAAGCCTTGTTCAA	1419
Sbjct	53555		53614
Query	1420	CATGAAAGAATCCATACAGGGGAGAAACCCTATGAATGTAAAGAATGT-GGAAGGCTTTT	1478
Sbjct	53615	CATGAAAGAATCCATACAGGGGAGAAACCCTATGAATGTAAAGAATGTGGGAAGGCTTTT	53674
Query	1479	AGTCGTGGCTATCACCTTACTCAACATCAGAAAATTCATACCGGTGAGAAACCTTTCAAA	1538
Sbjct	53675	AGTCGTGGCTATCACCTTACTCAACATCAGAAAATTCATACCGGTGAGAAACCTTTCAAA	53734
Query	1539	TGTAAGGAATGTGGGAAGGCCTTCAGTTGGGGTTCAAGCCTAGTTAAGCATGAGAGAGTC	1598
Sbjct	53735	TGTAAGGAATGTGGGAAGGCCTTCAGTTGGGGTTCAAGCCTAGTTAAGCATGAGAGAGTC	53794
Query	1599	CATACTAATGAGAAGTCTTATGAATGTAAAGACTGTGGGAAGGCCTTTGGTAGTGGCTAT	1658
Sbjct	53795		53854
Query	1659	CAACTTAGTGTTCATCAGAGATTTCATACTGGTGAGAAGCTTTATCAACATAAGGAATTC	1718
Sbjct	53855		53914
Query	1719	GGGAAGACCTTTACTCGTGGCTCAAAACTTGTTCATGAGAGAACTCATAGTAATGATAAA	1778
Sbjct	53915	GGGAAGACCTTTACTTGTGGCTCAAAACTTGTTCATGAGAGAACTCATAGTAATGATAAA	53974

Query	1779	CCCTACAAATATAACGAATGTGGGGAAGCCTTTCTGTGGACAACTTACTCAAATGAGAAA	1838
Sbjct	53975	CCCTACAAATATAACGAATGTGGGGAAGCCTTTCTGTGGACAACTTACTCAAATGAGAAA	54034
Query	1839	ATTGATACTGATGAAACCTTATGATTGAAAGTTGTAAAAGAATATTTTGTGTGTG	1898
Sbjct	54035	ATTGATACTGATGAAACCTTATGATTGAAAGTTGTAAAAGAATATTTTGTGTGTG	54094
Query	1899	AGACAACTTATCATAATAAGAACTCTTACTCTTGAGAAACCTTGTGAATGTAAGGGTTGT	1958
Sbjct	54095	AGACAACTTATCATAATAAGAACTCTTACTCTTGAGAAACCTTGTGAATGTAAGGGTTGT	54154
Query	1959	GCAAAAGCCATTCATTTCTGTTTATGGGCAATTATCTTGCTATCCAGCAATTCATACTAG	2018
Sbjct	54155	GCAAAAGCCATTCATTTCTGTTTATGGGCAATTATCTTGCTATCCAGCAATTCATACTAG	54214
Query	2019	TGAGAAATATTTTGAATATAATTAATATGAAAAGGCCTTTAGACTTCTGTACAGTCTTAT	2078
Sbjct	54215	TGAGAAATATTTTGAATATAATTAATATGAAAAGGCCTTTAGACTTCTGTACAGTCTTAT	54274
Query	2079	TGGATATCAATTTATACTGATGTAAAATCATTTAAATG 2116	
Sbjct	54275	TGGATATCAATTTATACTGATGTAAAATCATTTAAATG 54312	

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Score = 406 bits (211), Expect = 2e-109
Identities = 618/819 (75%), Gaps = 1/819 (0%)
Strand=Plus/Plus
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		·	
Query	748	CATCAGAAAATTCATATTGGTGTGAAATCTTATAAATGTAAGGAATGTGGGAAGGCCTTT	807
Sbjct	23822	CATCAGAAAATTCATCATGGTGTGAAACCCTACAAATGTAAAGAATGTGGAAAGGCTTTT	23881
Query	808	TTTTGGGGCTCAAGCCTTGCTAAACATGAGATAATTCATACAGGTGAGAAACCTTATAAA	867
Sbjct	23882	GGTCATCGTTCAAGTCTTTACCAACATAAGAAAATTCATTC	23941
Query	868	TGTAAAGAATGTGGGAAGGCCTTCAGTCGTGGCTATCAACTTACTCAGCATCAGAAAATC	927
Sbjct	23942	TGTGAACAATGTGAAAAGGCCTTTGTTCGCAGCTATCTACTTGTTGAACATCAAAGAAGT	24001
Query	928	CATACTGGTAAGAAACCTTATGAATGTAAAATATGTGGAAAGGCTTTTTGTTGGGGCTAT	987
Sbjct	24002	CATACTGGTGAGAAACCTCATGAATGCATGGAATGTGGAAAGGCTTTTGGTAAGGGCTCA	24061
Query	988	CAACTTACTCGACATCAGATATTTCATACTGGTGAGAAACCCTATGAATGCAAGGAATGT	1047
Sbjct	24062		24121
Query	1048	GGGAAGGCTTTTAATTGCGGATCAAGTCTTATTCAACATGAAAGAATTCATACTGGTGAG	1107
Sbjct	24122		24181
Query	1108	AAACCTTATGAATGTAAAGAATGTGGAAAGGCCTTTAGTCGTGGCTATCACCTTTCTCAA	1167

Exhibit I



PubMed

Entrez

BLAST

OMIM

Taxonomy

Structure

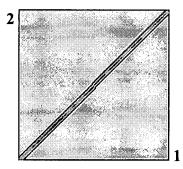
BLAST 2 SEQUENCES RESULTS VERSION BLASTP 2.2.16 [Mar-25-2007]

Matrix BLOSUM62 gap open: 11 gap extension: 1	
x_dropoff: 0 expect: 10.0000 wordsize: 3 Filter \subseteq View	option Standard
Masking character option X for protein, n for nucleotide Maski	ng color option Black 🕟
☐ Show CDS translation Align	

Sequence 1: |c||SID3_ORF Protein encoded by SEO \$D NO'S. Length = 517 (1 .. 517)

Sequence 2: lcl|SID4 Length = 518 (1 .. 518) Prokin of SEQ ID NO:4.





NOTE:Bitscore and expect value are calculated based on the size of the nr database.

Score	= 9	b/ bits $(24/5)$, Expect = 0.0, Method: Composition-based stats	•
Identi	ities	= 516/517 (99%), Positives = 516/517 (99%), Gaps = 0/517 (0%)	
Query	1	MTDGLVTFRDVAIDFSQEEWECLDPAQRDLYVDVMLENYSNLVSLDLESKTYETKKYFSE MTDGLVTFRDVAIDFSQEEWECLDPAQRDLYVDVMLENYSNLVSLDLESKTYETKK FSE	60
Sbjct	1	MTDGLVTFRDVAIDFSQEEWECLDPAQRDLYVDVMLENYSNLVSLDLESKTYETKKIFSE	60
Query	61	NDIFEINFSQWEMKDKSKTLGLEASIFRNNWKCKSIFEGLKGHQEGYFSQMIISYEKIPS NDIFEINFSQWEMKDKSKTLGLEASIFRNNWKCKSIFEGLKGHOEGYFSOMIISYEKIPS	120
Sbjct	61	NDIFEINFSQWEMKDKSKTLGLEASIFRNNWKCKSIFEGLKGHQEGYFSQMIISYEKIPS	120
Query	121	YRKSKSLTPHQRIHNTEKSYVCKECGKACSHGSKLVQHERTHTAEKHFECKECGKNYLSA YRKSKSLTPHORIHNTEKSYVCKECGKACSHGSKLVOHERTHTAEKHFECKECGKNYLSA	180
Sbjct	121	YRKSKSLTPHQRIHNTEKSYVCKECGKACSHGSKLVQHERTHTAEKHFECKECGKNYLSA	180
Query	181	YQLNVHQRFHTGEKPYECKECGKTFSWGSSLVKHERIHTGEKPYECKECGKAFSRGYHLT YQLNVHQRFHTGEKPYECKECGKTFSWGSSLVKHERIHTGEKPYECKECGKAFSRGYHLT	240
Sbjct	181	YQLNVHQRFHTGEKPYECKECGKTFSWGSSLVKHERIHTGEKPYECKECGKAFSRGYHLT	240

Query	241	QHQKIHIGVKSYKCKECGKAFFWGSSLAKHEIIHTGEKPYKCKECGKAFSRGYQLTQHQK QHQKIHIGVKSYKCKECGKAFFWGSSLAKHEIIHTGEKPYKCKECGKAFSRGYQLTQHQK	300
Sbjct	241	QHQKIHIGVKSYKCKECGKAFFWGSSLAKHEIIHTGEKPYKCKECGKAFSRGYQLTQHQK	300
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Sbjct	301	IHTGKKPYECKICGKAFCWGYQLTRHQIFHTGEKPYECKECGKAFNCGSSLIQHERIHTG	360
Query	361	EKPYECKECGKAFSRGYHLSQHQKIHTGEKPFECKECGKAFSWGSSLVKHERVHTGEKSH EKPYECKECGKAFSRGYHLSQHQKIHTGEKPFECKECGKAFSWGSSLVKHERVHTGEKSH	420
Sbjct	361	EKPYECKECGKAFSRGYHLSQHQKIHTGEKPFECKECGKAFSWGSSLVKHERVHTGEKSH	420
Query	421	ECKECGKTFCSGYQLTRHQVFHTGEKPYECKECGKAFNCGSSLVQHERIHTGEKPYECKE ECKECGKTFCSGYQLTRHQVFHTGEKPYECKECGKAFNCGSSLVQHERIHTGEKPYECKE	480
Sbjct	421	ECKECGKTFCSGYQLTRHQVFHTGEKPYECKECGKAFNCGSSLVQHERIHTGEKPYECKE	480
Query	481	CGRLLVVAITLLNIRKFIPVRNLSNVRNVGRPSVGVQ 517 CGRLLVVAITLLNIRKFIPVRNLSNVRNVGRPSVGVQ	
Sbjct	481	CGRLLVVAITLLNIRKFIPVRNLSNVRNVGRPSVGVQ 517	

CPU time: 0.02 user secs. 0.01 sys. secs 0.03 total secs.